



Harnischfeger
P&H
milwaukee, wisconsin 53204

D5-380 Litho in U.S.A.



P&H[®] 790-TC

For reference only. Operators manual should be consulted and adhered to.

90-ton Truck Crane 200' Boom 180' Boom 60' Jib

**Heavy Duty
Standard Boom
62" wide x 62" deep**

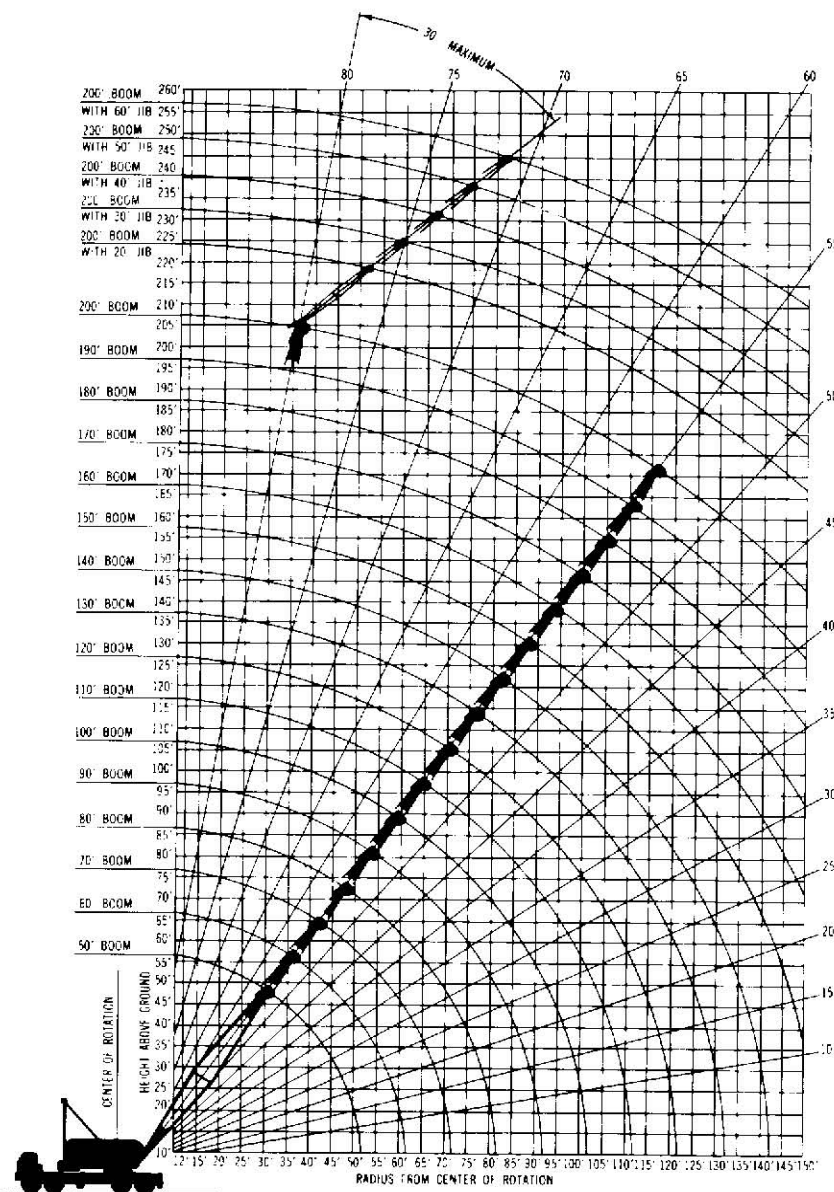
This Brochure
contains charts for:

Standard Ratings

- On Outriggers
- On Rubber

Over the Rear Ratings

- On Outriggers for Heavy Rigging
- On Rubber "Walking" Ratings for Tilt-up Work



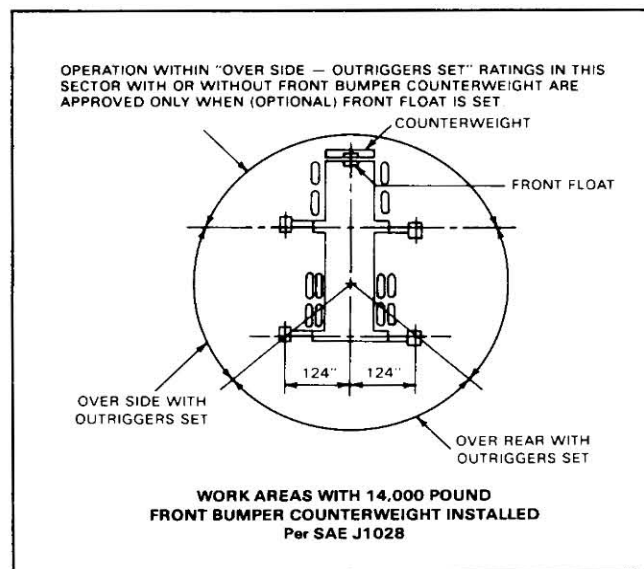
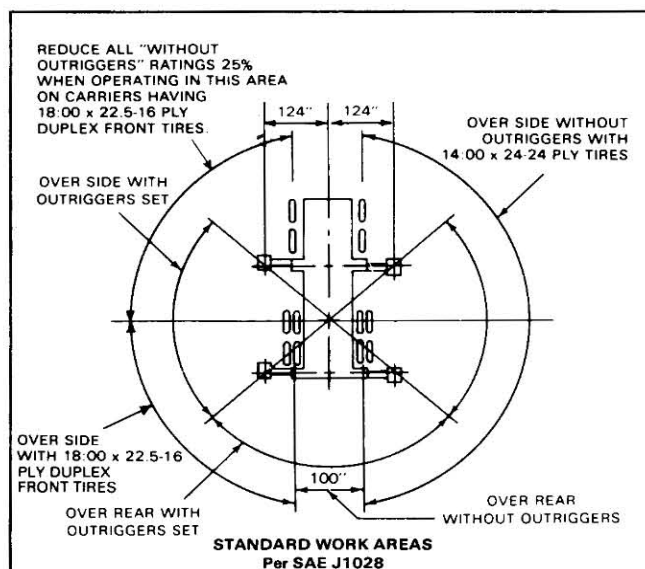
crane

**lifting capacities
working ranges**

P&H 790-TC

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**THIS P&H MODEL
790-TC MEETS
THE REQUIREMENTS OF
ANSI B30.5-1968.
BOOM STRUCTURE
HAS BEEN TESTED PER
SAE J987.
MACHINE STABILITY
HAS BEEN TESTED
PER SAE J765.**



NOTE: All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time without advance notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with the conditions encountered. The only warranty applicable is our standard written warranty for this machine. Manufactured and sold in conformance with U. S. Department of Commerce Commercial Standard CS-90-58.

Harnischfeger
P&H
milwaukee, wisconsin. 53201

Address inquiries to:



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RATED CRANE LOADS IN POUNDS — MAIN BOOM (62" W. x 62" D.) IN OVER SIDE AND OVER REAR WORK AREAS WITH OUTRIGGERS FULLY EXTENDED AND SET.																																																										
Oper. Rad. Ft.	Angle	50 Ft. Boom		60 Ft. Boom		70 Ft. Boom		80 Ft. Boom		90 Ft. Boom		100 Ft. Boom		110 Ft. Boom		120 Ft. Boom		130 Ft. Boom		140 Ft. Boom		150 Ft. Boom		160 Ft. Boom		170 Ft. Boom		180 Ft. Boom		190 Ft. Boom			200 Ft. Boom		Oper. Rad. Ft.																							
		Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.																									
12	82	57.8	180,000						RATINGS ABOVE HEAVY LINE ARE LIMITED BY FACTORS OTHER THAN STABILITY.																												12																					
15	78	57.3	152,500																																		15																					
20	72	56.1	125,000	75	66.4	124,600	78	76.7	121,000																											20																						
25	66	54.2	97,800	70	64.9	97,780	73	75.4	97,760	75	85.8	97,740	77	96.1	97,720	78	106.3	90,000																			25																					
30	60	51.6	71,800	65	62.9	71,780	69	73.7	71,760	72	84.4	71,740	74	94.8	71,720	75	105.2	71,700	77	115.5	71,600	78	125.7	71,550	79	135.9	54,000										30																					
35	53	48.3	56,400	60	60.3	56,360	64	71.6	56,330	68	82.5	56,300	70	93.2	56,200	72	103.8	56,000	74	114.2	55,900	75	124.5	55,850	77	134.8	54,000	78	145.1	54,000	78	155.3	54,000	79	165.5	54,000				35																		
40	45	43.8	46,200	54	57.0	46,150	60	69.0	46,100	64	80.3	46,000	67	91.3	45,900	69	102.0	45,700	71	112.7	45,500	73	123.1	45,450	74	133.6	45,400	75	143.9	45,200	76	154.2	45,000	77	164.5	44,800	78	174.7	36,000	79	184.9	35,900	79	195.1	35,700							40						
45	36	37.8	38,900	48	52.9	38,850	55	65.7	38,800	60	77.6	38,600	64	89.0	38,500	66	100.0	38,300	69	110.8	38,100	70	121.5	38,050	72	132.1	38,000	73	142.5	37,800	74	152.9	37,600	75	163.3	37,400	76	173.6	36,000	77	183.8	35,500	78	194.1	35,000							45						
50	24	28.9	33,500	41	47.7	33,450	50	61.8	33,400	56	74.4	33,200	60	86.3	33,000	63	97.7	32,800	66	108.8	32,600	68	119.6	32,550	70	130.3	32,500	71	140.9	32,300	72	151.5	32,000	74	161.9	31,800	75	172.3	31,750	75	182.6	31,500	76	192.9	31,300	77	203.2	31,000							50			
60				22	30.9	25,900	38	51.2	25,700	46	66.2	25,500	52	79.5	25,300	56	91.8	25,100	60	103.6	24,900	63	115.0	24,850	65	126.2	24,800	67	137.1	24,500	68	147.9	24,300	70	158.6	24,100	71	169.2	24,000	72	179.8	23,800	73	190.2	23,500	74	200.6	23,200							60			
70					20	32.7	20,700	35	54.4	20,400	43	70.3	20,200	49	84.2	20,000	54	97.0	19,800	57	109.2	19,750	60	120.9	19,600	62	132.4	19,400	64	143.6	19,200	66	154.6	18,900	67	165.5	18,800	69	176.2	18,600	70	186.9	18,300	71	197.5	18,000							70					
80								19	34.3	16,900	33	55.4	16,600	41	74.2	16,300	47	88.6	16,100	51	101.9	16,050	55	114.5	16,000	58	126.5	15,700	60	138.3	15,200	62	149.7	15,100	64	160.9	15,100	65	172.0	14,900	67	182.9	14,600	68	193.8	14,300							80					
90				WARNING:												18	35.9	14,000	31	60.3	13,700	39	77.8	13,400	45	92.8	13,350	49	106.6	13,300	52	119.5	13,000	55	131.9	12,700	58	143.9	12,500	60	155.6	12,400	62	167.0	12,100	63	178.3	11,800	65	189.4	11,600							90
100				When boom is equipped with jib, main hook rating must be reduced to compensate for jib attachment weight.												17	37.4	11,600	30	63.0		37	81.2	11,250	43	96.8	11,100	47	111.0	10,900	51	124.3	10,600	53	137.0	10,400	56	149.3	10,300	58	161.2	10,000	60	172.9	9,700	62	184.4	9,400							100			
110																			16	38.8	9,700	28	65.5	9,650	36	84.5	9,450	41	100.6	9,200	45	115.3	8,900	49	128.9	8,650	52	142.0	8,550	54	159.5	8,300	56	166.7	7,950	58	178.6	7,700							110			
120		Jib Length	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.														16	40.2	8,350	27	67.9	8,100	34	87.6	7,800	40	104.3	7,550	44	119.3	7,300	47	133.4	7,150	50	146.7	6,900	53	159.5	6,550	55	171.9	6,300							120				
130																								15	41.4	7,000	26	70.3	6,700	33	90.6	6,400	38	107.8	6,150	43	123.3	6,000	46	137.7	5,750	49	151.3	5,400	51	164.4	5,150							130				
140		Deduct Lbs.	1,500	1,500	2,000	2,500	3,000																				14	42.7	5,750	25	72.6	5,450	32	93.5	5,200	37	111.2	5,000	41	127.1	4,750	45	141.8	4,450	47	155.8	4,150							140				
150																														14	43.9	4,700	25	74.7	4,400	31	96.3	4,200	36	114.5	3,950	40	130.7	3,600	43	145.8	3,300							150				

RATED CRANE LOADS IN POUNDS — MAIN BOOM — WITHOUT OUTRIGGERS — TIRES AT 100 P.S.I.																												
Oper. Rad. Ft.	Angle	50 Ft. Boom		Angle	60 Ft. Boom		Angle	70 Ft. Boom		Angle	80 Ft. Boom		Angle	90 Ft. Boom		Angle	100 Ft. Boom		Angle	110 Ft. Boom		Angle	120 Ft. Boom		Angle	130 Ft. Boom		Oper. Rad. Ft.
		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear		Over Side	Over Rear	
12	82		85,000																									12
15	78		70,500																				RATINGS SHOWN DO NOT EXCEED MANUFACTURER'S APPROVED TIRE CAPACITY.					15
20	72		53,600	75	42,200	52,600	78	42,100	52,400																			20
25	66	34,900	39,700	70	34,700	39,500	73	34,600	39,300	75	33,800	39,100	77	33,000	38,800	78	32,700	38,500										25
30	60	26,700	31,600	65	26,500	31,400	69	26,300	31,200	72	26,100	31,000	74	25,900	30,700	75	25,700	30,400	77	25,400	30,100	78	25,200	29,900				30
35	53	21,400	25,800	60	21,200	25,600	64	21,000	25,400	68	20,800	25,200	70	20,600	25,000	72	20,400	24,800	74	20,200	24,500	75	19,900	24,300	77	19,700	24,000	35
40	45	18,100	21,800	54	17,900	21,600	60	17,700	21,400	64	17,500	21,200	67	17,300	21,000	69	17,100	20,800	71	16,900	20,500	73	16,600	20,300	74	16,400	20,000	40
45	36	15,600	18,700	48	15,400	18,500	55	15,200	18,300	60	15,000	18,100	64	14,800	17,900	66	14,600	17,700	69	14,400	17,500	70	14,100	17,200	72	13,900	17,000	45
50	24	13,700	16,100	41	13,500	15,900	50	13,300	15,700	56	13,100	15,500	60	12,900	15,300	63	12,700	15,100	66	12,500	14,900	68	12,200	14,600	70	12,000	14,400	50
60				22	10,200	12,400	38	10,000	12,200	46	9,700	11,900	52	9,500	11,700	56	9,200	11,400	60	9,000	11,200	63	8,700	10,900	63	8,500	10,700	60
70							20	7,800	9,700	35	7,500	9,500	43	7,300	9,200	49	7,000	9,000	54	6,800	8,700	57	6,500	8,500	60	6,300	8,200	70
80										19	5,900	7,600	33	5,700	7,400	41	5,400	7,100	47	5,200	6,900	51	4,900	6,600	55	4,700	6,400	80
90													18	4,500	5,900	31	4,200	5,700	39	4,000	5,400	45	3,700	5,200	49	3,500	4,900	90
100																17	3,300	4,600	30	3,000	4,300	37	2,800	4,100	43	2,500	3,800	100



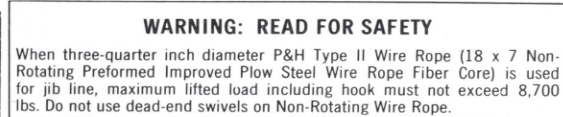
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32R65-C

NOTE: For loads of 88,000 lbs. or less, maximum swing area is 50 inches from longitudinal centerline of carrier at all operating radii with 125 P.S.I. tire pressure. For loads of 74,400 lbs. or less, maximum swing area is 50 inches from longitudinal centerline of carrier at all operating radii with 100 P.S.I. tire pressure.

MAIN HOIST DRUM RATED LOADS FOR SEVEN-EIGHTHS INCH DIA. P&H TYPE 4 WIRE ROPE										
Number of Parts of Main Hoist Reaving	1	2	3	4	5	6	7	8	9	10



Ratings shown are based on tire loadings and machine stability and do not exceed 85% of tipping load as determined by SAE J1765. Ratings shown are based on machine counterweight of 26,000 lbs. and front bumper counterweight of 8,000 lbs. Standard boom hoist reeving is 10 part line. Gantry must be in raised position for all operating conditions. Refer to diagram for applicable restricted work area.

Low gear operation may be required when hoist or digging drum is operated on 6th or 7th layer of cable.

P&H Type 4 Wire Rope: 6 x 25 with Filler Wire, Preformed Improved Plow Steel Wire Rope, 7 x 7 I.W.R.C.

P&H Type 25 Wire Rope: 6 x 25 F I.W.R.C., Preformed Extra Improved Plow Steel Wire Rope (Filler Wire)

Machine must be on a firm level, supporting surface. All tires must be 14:00 x 24 — 24 ply inflated to: see chart. Load must be restrained from swinging during travel. Maximum approved travel speed: with lifted load is 1.5 M.P.H. Remove front bumper counterweight for travel speeds above 5 M.P.H. unless equipped with boom folding kit. Maximum approved tire pressure for highway travel is 100 P.S.I.

With boom folding kit, a maximum length of 110 ft. can be folded — 45 ft. Under 65 ft. a 100 ft. boom can be folded — 45 ft. Under 55 ft. "Travel" approved with gantry in the first raised position only and 8,000 lbs. front bumper counterweight.

Locate jib backstay anchor as follows: 50 ft. to 90 ft. boom — at base of boom tip section; 100 ft. to 180 ft. boom — at top of second insert below boom tip section.

Maximum boom length on which a jib can be mounted is 180 ft. Maximum boom and jib length to lift off ground, over side, is 160 ft. plus 60 ft. Any combination greater than 160 ft. plus 60 ft. must be lifted over rear.

Boom Length Ft.	INSERT ARRANGEMENT* For 62" Wide x 62" Deep Boom Only
90	BASE — A — C — TIP
100	BASE — C — B — TIP
110	BASE — A — C — B — TIP
120	BASE — D — B — TIP
130	BASE — C — D — TIP
140	BASE — A — C — D — TIP
150	BASE — B — C — D — TIP
160	BASE — A — B — C — D — TIP
170	BASE — B — D — D — TIP
180	BASE — C — D — D — TIP
190	BASE — D — A — C — D — TIP
200	BASE — B — C — D — D — TIP

BASE SECTION IS 25 FT.; TIP SECTION IS 25 FT.
 INSERTS: A = 10 FT.; B = 20 FT.; C = 30 FT.; D = 50 FT.

BASE SECTION IS 25 FT.; TIP SECTION IS 25 FT.
INSERTS: A = 10 FT.; B = 20 FT.; C = 30 FT.; D = 50 FT.

*ONE SPECIFIED INSERT MAY BE REPLACED BY TWO SHORTER INSERTS WITHOUT REDUCING RATINGS